

Repair mortar, sulphate-resistant, polymermodified, cementitious, layer thickness of 12-50 mm CE

∩ =+30°C
₽



Area of application	 as concrete repair product for the repair of concrete structures (concrete and reinforced concrete) for extremely aggressive water, e.g. in wastewater management, wastewater treatment plants
Properties	 polymer-modified, cementitious concrete repair product (PCC / RM) very good adhesive strength on a concrete substrate very good application overhead very good non-sag properties provides highly effective protection when exposed to ice and salt resistant to water containing sulphuric acid, ammonium, and sulphate in line with exposure class XA3 in accordance with EN 206-1:2001-07
Information/notes	 product is in accordance with EN 1504-3 Class R 4 as concrete repair mortar for extremely aggressive sulphate-laden water in accordance with DIN 4030-1:2008-06

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	2.2 kg/dm ³	
Maximum particle size		4 mm	
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Compressive strength	EN 12190	58 MPa	
Flexural strength	TP BE-PCC	10 MPa	
Static modulus of elasticity	EN 13412	21 GPa	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

Requirements on the substrate:

The concrete substrate must be load-bearing and free from native and foreign



substances that could interfere with adhesic components (e.g. chlorides). Remove less	
Damp in accordance with the definition in E Preparation grade of the exposed reinforcin 2½ in accordance with EN ISO 8501-1.	
Average bond strength: 1.5 N/mm ² Bond strength, lowest single value: 1.0 N/m	1m²
Prepare the substrate using a suitable mech blasting or high-pressure water blasting (> 8 Open pores and blow-holes sufficiently.	
Note: Rework any treated surfaces using a suitab substrate preparation process has led to joi existing concrete close to the surface. Thes milling, or flame cleaning.	int faults in the area of the remaining
Lowest application temperature: +5 °C Highest application temperature: +30 °C	
At +5 °C: approx. 90 minutes At +23 °C: approx. 60 minutes At +30 °C: approx. 45 minutes	
25 kg of material in accordance with the dea - 0.12 parts by weight	scription / 2.75 - 3.0 I water = 1.0 : 0.11
Compulsory mixer: decant water and add p minutes. Allow to mature for approx. 3 minu	
If using hand-held paddle mixers, they shou Ensure that the mixing paddles of the mixer and at least 2/3 of the height of the mixing o	r are at least 1/3 of the diameter and
If using single mixing paddles, these must h principle of countercurrent flow. The speed	
Type of application	Approx. consumption
per mm layer thickness	2.0 kg/m ²
Material consumption depends on the appli- among other factors. The stated consumption	
	 components (e.g. chlorides). Remove less Damp in accordance with the definition in E Preparation grade of the exposed reinforcin 2½ in accordance with EN ISO 8501-1. Average bond strength: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/m Prepare the substrate using a suitable meco blasting or high-pressure water blasting (> Open pores and blow-holes sufficiently. Note: Rework any treated surfaces using a suitable substrate preparation process has led to jo existing concrete close to the surface. These milling, or flame cleaning. Lowest application temperature: +5 °C Highest application temperature: +30 °C At +5 °C: approx. 90 minutes At +23 °C: approx. 60 minutes At +30 °C: approx. 45 minutes 25 kg of material in accordance with the de - 0.12 parts by weight Compulsory mixer: decant water and add p minutes. Allow to mature for approx. 3 minutes and at least 2/3 of the height of the mixing and at least 2/3 of the height of the mixing of fu using single mixing paddles, these must h principle of countercurrent flow. The speed Type of application per mm layer thickness Material consumption depends on the applies



	guide. If required, determine precise consumption values on the basis of the specific project.
Coating build-up	 Substrate preparation Protection against corrosion: StoCrete TK (in case of exposed reinforcement) Mineral bonding agent with StoCrete TH 250 Concrete repair with StoCrete TG 254 Fine filler using StoCrete TF 250 Layer thickness: 12-50 mm, partially up to 100 mm Higher layer thicknesses are possible due to multi-layer work.
Application	apply with a plastering trowel
	1) Substrate preparation
	2) Protection against corrosion Immediately after derusting of the reinforcing steel in accordance with EN ISO 12944, Part 4, coating with StoCrete TK is carried out in two application cycles. The reinforcing steels are coated uniformly without gaps using a paint brush.
	Waiting time between the two application cycles is 4.5 hours. The protection against corrosion must be sufficiently hardened on the reinforcing steel so that it cannot detach from the reinforcing steel during the second application cycle.
	First application cycle: StoCrete TK grey Consumption approx. 130 g/m one-time application Ø to 18 mm Second application cycle: StoCrete TK light grey consumption approx. 140 g/m one-time application Ø to 18 mm
	or First application cycle: StoCrete TK grey consumption approx. 150 g/m one-time application Ø above 18 mm Second application cycle: StoCrete TK light grey consumption approx. 160 g/m one-time application Ø above 18 mm
	 Mineral bonding agent Sufficiently pre-wet the concrete substrate before applying StoCrete TH 250 (about 24 hours before the first application cycle). However, when applying the product, the concrete substrate must be dry enough that it appears only slightly damp.
	Apply the StoCrete TH 250 bonding agent using a suitable tool such as a paint brush or brush. Remove any cured bonding agent by blasting abrasive and renew it. Consumption approx. 1.9 kg/m² (dry material)
	4) Concrete repair StoCrete TG 254 is applied to the fresh bonding bridge. Apply with a mason's



	trowel, spatula or square fresh.	trowel. To ensure adhesive b	ond always work fresh in
	Consumption: approx. 22 material)	kg/m ² per cm spalling depth/	layer thickness (mixed
	Then roughly trowel off th subsequent smoothing fill	he surface without smoothing ler.	to ensure bonding to the
	5) Curing Curing procedure: a) Cover with film or shee b) Spray with water c) Chemical curing	eting	
	Under normal conditions,	curing must last at least 3 da	iys.
	Note: Chemical curing may only this.	y be carried out if the subsequ	uent work is compatible with
	It is not possible to achiev procedural reasons. The foil must not touch th A key part of curing is add	ve a uniform colour shade of the surface of the mortar. equately wetting the concrete bstrate is water-saturated and	substrate before applying
Drying, curing, ready for next coat	At +20 °C and 65 % relati StoCrete TF 250 after 5 c	ive humidity, over-coatable wi days	ith:
Cleaning the tools	Clean tools with water im	mediately after use.	
Notes, recommendations, special information, miscellaneous	Technisches InfoCenter	ormance can be obtained from actions are available at www.s anual.	
Delivery			
Delivery Packaging	sack		
-	sack Article number	Name	Container
Packaging		Name StoCrete TG 254	Container 25 kg bag
Packaging Storage	Article number 00724-001		
Packaging	Article number	StoCrete TG 254	

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This product has a low chromate content.

The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021. For further explanation, see the price list.

Product group	Repair mortar
Safety	This product is subject to compulsory labelling in accordance with the current EU
Odlety	regulation.
	You will receive an EU Safety Data Sheet with your first order.
	Please observe the information regarding the handling of the product, its storage and disposal.

Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use. Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

This applies in particular when the product is used in combination with other products.

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